

DATA ITEM DESCRIPTION		Form Approved OMB No. 0704-0188	
<p>The reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</p>			
1. TITLE INTEGRATED MASTER SCHEDULE (IMS)		2. IDENTIFICATION NUMBER DI-MISC-81183A	
3. DESCRIPTION/PURPOSE <p>The IMS is an integrated schedule developed by logically networking detailed program activities. The contract Integrated Master Plan (IMP) is the foundation of the program schedule and provides a hierarchy for schedule traceability and summarization. IMP events, accomplishments, and criteria are included in the schedule to monitor progress. This information will be used to verify attainability of program objectives, evaluate the progress of the government and contractor team toward meeting the program objectives, and to integrate program schedule among all related components.</p>			
4. APPROVAL DATE (YYMMDD) 960209	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) F/ASC/FMCS	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP <p>7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.</p> <p>7.2 This DID may be applied to programs which utilize the Work Breakdown Structure (WBS) during the concept exploration, demonstration and validation, engineering and manufacturing and development, and production phases.</p> <p>7.3 This DID supersedes DI-MISC-81183.</p>			
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER F7180
10. PREPARATION INSTRUCTIONS <p>10.1 Format. This precedence logic diagram shall be in the contractor's format in the form of a network, milestone, or Gantt chart. This diagram shall be provided in digital format.</p> <p>10.2 Content. The schedule shall contain all of the contract IMP events and milestones, accomplishments, criteria, and activities from contract award to the completion of the contract. The schedule shall be an integrated, logical network-based schedule that correlates to the program WBS, and is vertically and horizontally traceable to the cost/schedule reporting instrument used to address variances (such as Cost Performance Report (CPR), Cost/Schedule Status Report (C/SSR), etc.). It shall have a numbering system that provides traceability through the IMP and Statement of Work (SOW). It shall contain program events and milestones and definitions, summary, intermediate and detailed schedules, and periodic analysis of progress to date. It shall be possible to access the information by product, process, or organizational lines. Descriptions of the key elements are as follow:</p> <p>10.2.1 Program milestones and definitions. Key programmatic events defined by IMP, the contracting agency or weapon system contractor which define progress and completion in each WBS element along with the definition for successful completion of the milestone.</p> <p>10.2.2 Summary master schedules. A graphical display of top-level program activities and key events and milestones of the IMP which depict major work activities in an integrated fashion at the summary level of the WBS, e.g. level 1-3 of the WBS.</p> <p>10.2.3 Intermediate schedules. A graphical display of top-level program activities and key milestones which includes all associated accomplishments of the IMP, traceable to the WBS element as necessary to display the work effort at the intermediate level of summarization, e.g. level 3-5 of the WBS as appropriately tailored.</p>			
<p>DISTRIBUTION STATEMENT</p> <p style="text-align: center;">DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.</p>			

Block 10, Preparation Instructions (Continued)

10.2.4 Detailed Schedules. A graphical display of detailed activities and milestones which depict work activities in a particular work breakdown structure element, to include the criteria associated with each accomplishment of the WBS element as well as any additional activities necessary to display the work effort to detailed WBS levels; e.g. level 4-8 of the WBS as appropriately tailored.

10.2.5 Periodic Analysis. A brief summary which identifies progress to date, variances to the planned schedule, causes for the variance, potential impacts and recommended corrective action to avoid schedule delays. For each program activity planned, forecasted and actual completion dates shall be reported. The analysis shall also identify potential problems and a continuing assessment of the network critical path. Thresholds for impact reporting shall be identified on the DD Form 1423, CDRL.

10.2.6 Integrated Program Network. Logical diagram of all activities in the program. The key elements of the integrated network to be constructed in the diagram are as follow:

- a. Milestone or event - A specific definable accomplishment in the program/project network, recognizable at a particular point in time. Milestones are numbered and may be contained within an activity box.
- b. Activity or task - A time consuming element, e.g. work in progress between interdependent events, represented by an activity box.
- c. Duration - Planned length of time needed to accomplish an event/activity.
- d. Constraint - A line that defines how two activities or events are logically linked. It can take up to four (4) forms:
 - (1) FS (finish to start) - An activity must finish before another can start.
 - (2) SS (start to start) - An activity depends on the start of another activity.
 - (3) FF (finish to finish) - One activity cannot finish until another activity is finished.
 - (4) SF (start to finish) - An activity cannot finish until another activity starts.
- e. Slack or float - Extra time available on an activity before it will impact an activity on the critical path.
- f. Lag - The delay or wait period between two tasks.
- g. Critical path - A sequence of activities in the network that has the longest total duration through the program or project. Activities along the critical path have zero or negative slack/float. It should be easily distinguished on the report formats; e.g. a thick line, patterned or in red ink. This should be calculated by computer-based software.
- h. Target start (TS) - A program defined date of when an activity should start. This is an operator defined date rather than a computer-calculated date.
- i. Target complete (TC) - A program defined date of when an activity should finish. This is an operator-defined date rather than a computer-calculated date.
- j. Actual start (AS) - Actual start date of an activity.
- k. Actual finish (AF) - Actual finish date of an activity.
- l. Early start (ES) - The earliest start date an activity can begin the precedence relationships. Computer-calculated data.
- m. Early finish (EF) - The earliest finish date an activity can end. Computer-calculated date.

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n. Late start (LS) - The latest start date an activity can start without delaying the program or project target completion date. Computer-calculated date.

o. Late finish (LF) - The latest date an activity can have without affecting the program or project target completion date. Computer-calculated date.

p. Percent complete (PC) - Actual progress of an activity from its start to its finish.

10.3 Master integrated program schedule. It shall display all of the proposed program activities, events, and milestones from contract award to the completion of the contract.

10.4 Descriptive titles. Activities, tasks, events, and milestones shall be labeled with a brief descriptive title, numbered or coded and contain time constraints (e.g. durations, TS, ES, EF, LS, etc.). Standard abbreviations may be used to conserve space. Descriptive titles used on activities, events, and milestones shall be identical on all program schedules. A legend shall be provided to aid in ease of reading the schedules.

10.5 Schedule risk. The schedule shall include a description of the approach that will be taken to limit the schedule risks identified as a result of the contractor's risk assessment. Risk shall be defined considering impact on cost and technical performance and assessing the probability of schedule change. Additionally, technical performance measurement tasks and their correlation with contractual cost/schedule elements permit assessment of the program effort in terms of the schedule as well as cost of work increments. As technical performance measurement tasks, as well as cost reviews, reveal potential impacts to the schedule these risks will be identified.

10.5.1 Schedule risk assessment (SRA). Optimistic, pessimistic, and most likely durations for each MIPS activity/task and milestone/event shall be provided as the basis for determining the probability of meeting schedule dates. The government will assess the durations and use an appropriate cumulative probability (0-100%) for the chosen milestones to determine expected completion dates.

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1. TITLE Supplemental Data For Provisioning (SDFP)		2. IDENTIFICATION NUMBER DI-ALSS-81557	
3. DESCRIPTION/PURPOSE 3.1 SDFP is the technical data which provides definitive identification of dimensional, materiel, mechanical, electrical, or other characteristics adequate for provisioning of the support items of the end article(s) on contract. SDFP consists of data needed to indicate the physical characteristics, location, and function of the item. 3.2 SDFP provides for technical identification of items for maintenance support considerations; preparation of item identification for the purpose of assigning National Stock Numbers (NSNs); review for item entry control; standardization; review for potential interchangeability and substitutability; item management coding; preparation of allowance/issue lists; and source, maintenance, and recoverability coding.			
4. APPROVAL DATE (YYMMDD) 071097	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) F-AFMC/LGIM	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract. 7.2 This DID is applicable to all contracts which contain provisioning requirements unless the item is: a. Identified by a government or industry specification or standard which completely describes the item including materiel, dimensional, mechanical, and electrical characteristics. b. Identified in the Federal Logistics Information System with an NSN. c. Listed as a reference item (subsequent appearance of an item) on a parts list.			
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER F7273	
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . Contractor format is acceptable. 10.2 <u>Content</u> . SDFP shall consist of the minimum data necessary to identify dimensional, materiel, mechanical, electrical, or other descriptive characteristics necessary to serve the purposes (See 3.2) of this DID.			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.			

DATA ITEM DESCRIPTION		Form Approved DMS No. 0704-0188	
1. TITLE Technical Data Package		2 IDENTIFICATION NUMBER DI-CMAN-80776	
3. DESCRIPTION / PURPOSE 3.1 A Technical Data Package (TDP) contains all the descriptive documentation suitable for use as the basis for competitive acquisition, installation, modification, engineering support, or maintenance of military materiel developed by or for the Department of Defense.			
4. APPROVAL DATE (YYMMDD) 890308	5 OFFICE OF PRIMARY RESPONSIBILITY (OPR) MI	6a DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION / INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for a TDP resulting from the work task described by 3.3 of MIL-T-47500. 7.2 When this DID, in whole or in part, is incorporated in a contract, DIDs applicable to individual parts of a TDP shall not be incorporated as separate requirements. 7.3 This DID supersedes DI-E-1115B.			
8. APPROVAL LIMITATION		9a APPLICABLE FORMS	9b. AMSC NUMBER A4649
10 PREPARATION INSTRUCTIONS 10.1 <u>Reference documents.</u> The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices and revisions, shall be as specified in the contract. 10.2 <u>Content.</u> The TDP shall include the following: a. Conceptual and Developmental Design drawings in accordance with MIL-T-47500/1. b. Product drawings in accordance with MIL-T-47500/2. c. Commercial drawings in accordance with MIL-T-47500/3. d. Special Test Equipment, Special Inspection Equipment, and Special Tooling drawings in accordance with MIL-T-47500/4. e. Specifications in accordance with MIL-T-47500/5. f. Quality Assurance Provisions (QAPs) in accordance with MIL-T-47500/6. g. Packaging instructions in accordance with MIL-STD-2073-1.			
11 DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.			

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1. TITLE TEST PROGRAM SET(TPS) ACCEPTANCE TEST REPORT (ATR)			2. IDENTIFICATION NUMBER DI-ATTS-80283B	
3. DESCRIPTION / PURPOSE 3.1 The Acceptance Test Report is a compilation of the results of the Operational Test Program Set (OTPS) and Test Program Set (TPS) tests. 3.2 This ATR is the means by which the Government accepts Test Programs.				
4. APPROVAL DATE (YYMMDD) 970211	5. OFFICE OF PRIMARY RESPONSIBILITY N/PMA-260	6a. DTC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION / INTERRELATIONSHIP 7.1 This DID contains the format and content preparation instructions for the data product generated by the specific and discrete task requirements as delineated in the contract. 7.2 This DID is related to DI-ATTS-80281, Test Program SET (TPS) Integration Logbook and DI-ATTS-80282B, Test Program Set (TPS) Acceptance Test Procedures (ATP). 7.3 This DID supersedes DI-ATTS-80283A.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER N7237	
10. PREPARATION INSTRUCTIONS 10.1 <u>Reference Document.</u> The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract. 10.2 <u>Format.</u> Figures 1 through 6 provide sample data sheet format. 10.3 <u>Contents.</u> 10.3.1 <u>Test Results.</u> The ATR shall contain the results of the acceptance tests performed by the contractor to demonstrate that the OTPS (Test Programs, Interface Hardware, and documentation) conforms to the performance specifications, work authorization document, or contract requirements. 10.3.2 <u>Data Sheets.</u> The ATR shall contain appropriate data sheets of the test results as specified in DI-ATTS-80282B, Test Program (TP) Acceptance Test Procedures (ATP's). <div style="text-align: right;">(continued on page 2)</div>				
11. DISTRIBUTION STATEMENT Distribution Statement A: Approved for public release; distribution is unlimited.				

Block 10, Preparation Instructions (continued)

10.3.3 Supplemental data. The appropriate "MATERIAL AND RECEIVING REPORT (DD FORM 250)" and any special waivers, deviations, open items, and exceptions shall be attached to the ATR.

10.3.4 Correction of deficiencies. The ATR shall specify when and how the test deficiencies will be corrected.

10.3.5 Cover sheet. The ATR shall contain a cover signature sheet for the contractor program manager, quality assurance representative, TP engineer, and the Government acceptance representative.

10.4 Acceptance test reports. ATR's shall include the results of the following TP acceptance tests:

a. First Article

- (1) Functional Configuration Audit (FCA)
- (2) Physical Configuration Audit
- (3) Transportability Demonstration
- (4) Repeatability Demonstration
- (5) Maintainability Review

b. Production units

10.4.1 The ATR shall include a narrative summary of test results.

10.4.2 Data sheets (see sample Figures 1 through 6.)

10.4.2.1 The Design Verification Test Fault Selection List data sheets shall be included as part of the ATR.

10.4.2.2 The Maintainability Review/Analysis Test Report data sheets shall be included as part of the ATR.

10.4.3 Correction of deficiencies.

10.4.4 Open items.

10.4.4.1 Recommended solutions.

10.4.4.2 Schedules for completion of open items.

ACCEPTANCE TEST REPORT TPS, UUT, TESTER IDENTIFICATION DATA SHEET		
TPS Part Number _____ Date of Test _____		
NOMENCLATURE	PART NUMBER	SERIAL NUMBER
TEST STATION		
UUT UNDER TEST		
ID ELEMENTS SRA's, CHASSIS TEST FIXTURES CABLES, etc.		
TEST PROGRAM INSTRUCTION		
TEST PROGRAM MEDIUM		
ANCILLARY TEST EQUIPMENT		
Witness / Date Contractor Quality Assurance _____ / _____ Government Representative _____ / _____		

FIGURE 1. ATR Identification Data Sheet Sample

ACCEPTANCE TEST REPORT SOFTWARE IDENTIFICATION DATA SHEET		
TPS Part Number _____ Date of Test _____		
NOMENCLATURE	PART NUMBER	REVISION NUMBER
OPERATING SYSTEM		
TEST EXECUTIVE		
COMPILER		
POST PROCESSOR		
ATE SELF TEST PART NUMBER		
ATPG SYSTEM		
OTHER		
Witness / Date Contractor Quality Assurance _____ / _____ Government Representative _____ / _____		

FIGURE 2. ATR Software Identification Data Sheet Sample

ACCEPTANCE TEST REPORT TPS DVT DATA SUMMARY SHEET	
TPS Part Number _____ Date of Test _____	
SUMMARY OF RESULTS	
TPS VISUAL INSPECTION	SATISFACTORY _____
	UNSATISFACTORY _____
	EXPLAIN, IF NECESSARY _____

TPS PERFORMANCE TESTS	NUMBER OF MINOR DEFECTS _____
	NUMBER OF MAJOR DEFECTS _____
	NUMBER OF CRITICAL DEFECTS _____
FAULT INSERTION TEST	Ft - Total Faults Inserted _____
	Fs - Faults Successfully Isolated _____
	Fu - Faults unsuccessfully isolated _____
	$\% \text{ Isolated} = \frac{Fs}{Ft} \times 100$ _____
Witness / Date Contractor Quality Assurance _____ / _____ Government Representative _____ / _____	

FIGURE 3. ATR TPS DVT Data Summary Sheet Sample

<p align="center">ACCEPTANCE TEST REPORT TP PERFORMANCE TEST DATA SHEET (END-TO-END RUN)</p>		
TPS PART NUMBER _____		DATE _____
END TO END TEST RESULTS		
ELAPSED TIME _____	SUCCESSFUL _____	UNSUCCESSFUL _____
DESCRIPTION OF DEFECT		
CONTRACTOR, QA _____ GOVERNMENT REPRESENTATIVE _____		
DESCRIPTION OF CORRECTION		
END TO END RETEST RESULTS		
ELAPSED TIME _____	SUCCESSFUL _____	UNSUCCESSFUL _____
CONTRACTOR, QA _____ GOVERNMENT REPRESENTATIVE _____		

FIGURE 4. ATR TPS End To End Performance Test Data Sheet Sample

FIRST ARTICLE ACCEPTANCE TEST FAULT INSERTION DATA SHEET			
TPS PART No. _____		DATE OF TEST _____	
TPS PART No.	SUCCESSFUL MINOR DEFECT MAJOR DEFECT CRITICAL DEFECT	INITIAL TEST	RETEST
FAULT No.			
FAULT INSERTION DESCRIPTION			
FAULT INSERTION TEST RESULT			
FAILED PERFORMANCE TEST No. _____	FAILED DIAGNOSTICS TEST No. _____	REMOVE & REPLACE MESSAGE	
ELAPSED TIME _____	_____	_____	
AMBIGUITY GROUP CALLOUT SIZE _____	_____	_____	
AMBIGUITY GROUP REQUIREMENT _____	_____	_____	
DESCRIPTION OF DEFECT			
CONTRACTOR _____ DGAR _____			
DESCRIPTION OF CORRECTION			
FAULT RE-INSERTION TEST RESULT			
		DATE OF TEST _____	
FAILED PERFORMANCE TEST No. _____	FAILED DIAGNOSTICS TEST No. _____	REMOVE & REPLACE MESSAGE	
ELAPSED TIME _____	_____	_____	
AMBIGUITY GROUP CALLOUT SIZE _____	_____	_____	
AMBIGUITY GROUP REQUIREMENT _____	_____	_____	
CONTRACTOR QA _____ DGAR _____			

FIGURE 5. ATR TPS End To End Performance Test Data Sheet Sample

ACCEPTANCE TEST REPORT TPS DOCUMENTATION REVIEW SHEET							
TPS Part Number _____			Date of Test _____				
OPERATIONAL TEST PROGRAM INSTRUCTION _____							
TEST PROGRAM INSTRUCTION _____							
	Sat	Unsat	N/A		Sat	Unsat	N/A
OTPI Title Page				Post-Testing Data			
OTPI Table of Contents				Program Termination			
OTPI Record of Revisions/Changes				Disconnect and Removal			
TPI Title Page				Instructions			
Introduction				Test Diagrams			
Revisions/Changes				Test Program Listing			
Reference Documents				Master Test Program Set Index			
List of Illustrations				TPS Hardware			
List of Tables				TPS Software			
Pre-testing Data				TPS Ancillary Equipment			
Reference Documents				Additional Data			
ATE Resources Required				Engineering Support Data			
TPS Hardware Required				Test Strategy Report			
Ancillary Equipment Required				ATPG Support Data			
Special Tools				TPS Source Files/Computer			
No-Fault End t End Run Time				Program Aids			
Precautionary Notes							
Testing Data							
Program Start Procedures							
Partition Entry Points							
Test Instructions							
UUT Parts Location							
Functional Flow Chart							
DESCRIPTION OF DEFECT							
Contractor _____ Government Representative _____							
DESCRIPTION OF CORRECTION							
Contractor _____ Government Representative _____							

FIGURE 6. ATR TPS End To End Performance Test Data Sheet Sample

Air Force Technical Manual Contract Requirements (TMCR) for

T-38 WHEEL /BRAKE

(Program/Modification/Military System)

ATTACHMENT _____ TO CDRL SEQUENCE NUMBER _____ EXHIBIT _____
REQUEST FOR PROPOSAL/CONTRACT: _____

Date: _____

Technical Manual/Technical Order requirements contained herein have been cleared for use by OMB No. 0704-0188, 21 July 1986.

***NOTE:** Items in italics must be tailored by the TO Manager before placing the TMCR in an exhibit to the RFP, system performance specification or in the proposal technical library. The TMCR must be referenced in RFP section J. If some or all of the TO program requirements are included in RFP Section L (Instructions to Offeror), remove them from the TMCR. Delete this note prior to placing the TMCR in the RFP.*

SECTION 1. TECHNICAL ORDER (TO) PROGRAM REQUIREMENTS

1. {T} TMCR Tailoring. Offerors MUST tailor this TMCR document, including the associated tables, matrices and Specification/Standard Interface Requirements (SIRs). The tailored TMCR shall be attached to the CDRL for TO delivery, and shall be included in the proposal as a separate exhibit, referenced in the proposal SOW. Proposals shall be compatible with the Air Force infrastructure and support the *(T-38 Wheel/Brake)* Program's CALS implementation strategy. Air Force TO Acquisition procedures, including procedures for tailoring this document, is found in TO 00-5-3, located on the World Wide Web (WWW) at URL <http://www.pdsm.wpafb.af.mil/toprac/to-syste.htm>. Any terms or procedures found in this document may be researched there.
2. {T} TO Program Scope. The offeror shall tailor Section 2 to propose the TO types (Table 1) and source data, TO updates and commercial manuals (Table 2) required to support the *(T-38 Wheel/Brake)* program's objectives. Page-oriented Military Specification (MILSPEC) TOs must be formatted with text, graphics and delivery according to MIL-STD-38784 and applicable performance or detail (MIL-PRF or MIL-DTL) specifications. The offeror may propose use of Non-Government Specifications or Standards (NGS) for development of TOs, but must justify this choice based on life-cycle cost savings to the government and compatibility with existing systems.
3. Commercial Manuals. Offerors shall propose the use of existing commercial manuals to the maximum extent possible without impairing program support objectives. The proposal will describe the method used to recommend and submit specific manuals to the government for review and approval.
NOTES: a) Contractor Furnished Aeronautical Equipment/Contractor Furnished Equipment (CFAE/CFE) Notices, Data Item Description (DID) DI-TMSS-80067, may be used to provide recommendation data. b) The government will use MIL-HDBK-1221 as a guide for review and acceptance of all recommended commercial manuals, and MIL-PRF-7700 as an additional guide for commercial Flight Manual contents.
4. {T} Technical Manual Specifications and Standards (TMSS) Tailoring. TMSS are tailored by deleting requirements not needed for program TOs, and by selecting between options offered. The tailoring is recorded in SIRs and added to Section 3 of this document. AF options in some Joint-Service TMSS have been documented in preliminary SIRs included in Section 3. Offerors shall complete tailoring of the Joint-Service TMSS SIRs and provide recommended SIRs for other TMSS or NGS as applicable. Questions and conflicts with TMSS requirements may be resolved by written request and justified suggestions for resolution submitted through the PCO to (Willi Nelson /OO-LGVTN 6042 FIR AVE B.1236 HILL AFB UT 84056-5820/777-5906). Approved recommendations, corrections and clarifica-

tions will be maintained with contract documentation. **NOTE:** Tailoring must not change or delete mandatory requirements which are part of the Document Type Definition (DTD) structure.

5. Subsequent TO/Data Requirements. Offerors shall propose a process for notifying the government when additional TO or source data requirements are identified subsequent to contract award. This process shall require government review and approval of recommended additional requirements prior to contractual approval. **NOTE:** The recommended notification process is to use CFAE/CFE Notices (DI-TMSS-80067).

6. TO Development. The offeror shall propose TO development practices and procedures that ensure TOs and data are compatible with the Technical Order Concept of Operations (CONOPS)

([https://www.afmc-mil.wpafb.af.mil/HQ-](https://www.afmc-mil.wpafb.af.mil/HQ-AFMC/DR/tovision/files_toconops/01dec00_toconops_rev3.3.doc)

[AFMC/DR/tovision/files_toconops/01dec00_toconops_rev3.3.doc](https://www.afmc-mil.wpafb.af.mil/HQ-AFMC/DR/tovision/files_toconops/01dec00_toconops_rev3.3.doc)) and the JCALS JTMS.

6.1. The preferred method is to use the TMSS specified in Section 2 to produce TO files (instances) tagged using Standard Generalized Markup Language (SGML) according to the DTDs referenced in the appendix to MIL-STD-38784 and each specification. Before developing any DTDs, the acquiring activity shall contact MSG/MMF for pre-approval. If permission is granted, the offeror must submit any Digital Support Suites (DSS) developed to support use of NGS, canceled TMSS or undeveloped TMSS DTDs through the PCO and TO Manager to MSG/MMF for validation of JCALS compatibility; new DTDs shall not be developed in lieu of existing DTDs, including those for legacy TMSS. DSS submitted and approved in execution of the contract shall become the property of the Government. Questions about the application of SGML tagging to digital TO files can be directed to sgmlsupport@wpafb.af.mil.

6.2. SGML-tagged TO files shall include required illustration files in an approved graphics exchange format (see "Graphics Guidelines" under "Vital Information" on the IDE TMSS/SGML web page (<http://www.pdsm.wpafb.af.mil/tmss/index1.html>)). See TO 00-5-3 for additional guidance.

NOTE: Illustration files developed and delivered for other purposes shall be used in lieu of developing special TM illustration files whenever possible.

6.3. A first article test sample of each TO type shall be forwarded to MSG/MMF for testing to verify that the digital TO files meet minimum AF standards. First article testing should be repeated whenever new DSS or DTD versions are used for TO development.

7. TO Numbering. Offerors shall propose a method for notifying the government of which manuals require TO numbers. TO numbers are not required for manuals to be used exclusively by contractor personnel. (**NOTE:** DI-TMSS-80067 may be used to provide the notification.) AF procedures for numbering TOs are described in TO 00-5-3 and AFMCMAN 21-1 (<http://www.pdsm.wpafb.af.mil/toprac/to-syste.htm>).

8. Data Rights. Government rights in data are specified in the Defense Federal Acquisition Regulation Supplement (DFARS), paragraphs 227-7102 through 227-7104, located (*enter the RFP location containing the applicable DFARS paragraphs*). Offerors shall propose Unlimited Rights for all source data and TOs prepared specifically for the contract. If some TOs or source data are copyrighted or contain proprietary data or procedures, offerors may propose Limited Rights or Government Purpose License Rights (GPLR) only. Proposed commercial manuals should be provided with at least GPLR or Limited Rights. Copyrights shall be according to DFARS paragraphs 227-7103, 7105 or 7106.

9. Classification, Distribution, Destruction, Disclosure, and Export Control Notices. Offerors shall propose methods for determining, marking and controlling classified and restricted distribution data and TOs. Processes must conform to government requirements specified in DOD 5200.1-R, DODD

5230.24, AFIs 31-401 and 61-204, and MIL-STD-38784. **NOTE:** Distribution limitations are normally determined on a case-by-case basis as TOs are developed, dependent upon TO content.

10. {T} TO Quality. Offerors shall propose a quality assurance program which ensures TOs prepared are: a) 100% technically accurate; b) written to a scope and depth of coverage sufficient to support the operations and maintenance concepts, and to the Reading Grade Level (RGL) specified in MIL-STD-38784; c) compatible with the JCALS JTMS; and d) properly classified and marked with export control and distribution limitation statements. Recommended QA methods include actual performance of procedures and use of desk-top analysis for non-procedural data. Simulation (walk-through/talk-through) should be reserved for those procedures which would activate explosive devices or present a hazard to personnel or equipment. Offerors' proposals should describe how the government will be allowed to interact with the contractor's TO development team.

10.1. {T} Conferences and Technical Reviews. Offerors shall propose sufficient conferences and reviews to allow insight into TO development processes and ensure contract compliance. Offerors normally host an initial Guidance Conference or Technical Interchange Meeting (TIM) within 60 days of contract award to ensure mutual understanding of TO contract requirements, schedules, points of contact, etc. Periodic In-Process Reviews (IPRs) and Prepublication Reviews (PPR) ensure TOs are being developed according to contract requirements and that open discrepancies are cleared prior to publication.

10.2. {T} TO Certification. Offerors shall propose their method for documenting certification that TO procedures are accurate, adequate, current, and usable for their intended purposes.

10.3. Verification Support. Offerors shall propose the methods, equipment and personnel required to support government TO Verification. This support should consist of at least the contractor providing a production item on which to conduct verification. The contractor shall have an engineer and technical writer available during verification.

10.4. First Article Testing (FAT). An in-work sample of each type of SGML-tagged TO file shall be forwarded to MSG/MMF concurrent with the IPR, to verify compliance of the digital files to Air Force DSSs. Five percent of the digital TO files to be delivered in Indexed Portable Document Format (IPDF) shall be provided as part of the prepublication reviews to verify compliance with the Technical Order Conversion Requirements (TOCR) (http://www.pdsm.wpafb.af.mil/toconv/ToCr_r1.doc).

11. TO and Source Data Maintenance. Offerors shall propose methods for maintaining accuracy, currency and configuration of TOs and source data throughout the contract period of performance. Maintenance includes preparation of TO and source data updates to incorporate corrections, equipment configuration changes, and maintenance and operational concept changes.

12. {T} TO Delivery. Offerors shall propose practices and procedures for access to or delivery of digital TO files, including those for Preliminary TOs (PTOs), source data, reproduction masters, and program support data. Practices and procedures shall be compatible with the program's Contractor Integrated Technical Information Service (CITIS) agreement (if on contract). TO file delivery formats shall be according to applicable CDRLs and the tailored TM Delivery Requirements Matrices included in Section 2 of this document. Paper TO delivery is not acceptable for final delivery of TOs. **EXCEPTION:** When cost analysis proves the paper delivery is more cost effective over the life-cycle of the program or project, and for some Commercial Manuals not available digitally.

12.1. SGML-Tagged Files. The government will parse and compose SGML-tagged TO document files prior to acceptance and verify that content tagging has been accomplished to the levels provided

in the DTD. **NOTE:** The Internet address for public domain SGML parser software is "<ftp://ftp.jclark.com/pub/sgmls/>."

12.2. Indexed Adobe™ Portable Document Format (IPDF) Files. Indexing specifications for PDF TO files are contained in the Technical Order Conversion Requirements (TOCR) (http://www.ide.wpafb.af.mil/toconv/Tocr_r1.doc).

13. Schedules. Offerors shall include T.O. program events and schedules in their proposed Integrated Master Plan (IMP) and Integrated Master Schedule (IMS), and update the IMS throughout the period of performance. **NOTE:** AF policy requires delivery of verified TOs prior to or concurrently with delivery of operational equipment to the field (AFPD 21-3). This policy will determine TO development and delivery schedules throughout the acquisition phase of a program.

SECTION 2. TM TYPE AND DELIVERY REQUIREMENTS

NOTES:

- Mark the TM Type Selection Tables indicating the applicable TO types and related specifications. For additional interface requirements see the program-specific Government Concept of Operations (GCO) and DOD 5000.2-R.
- Manuals delivered using this table and DI-TMSS-80067, CFAE/CFE Notices, must be reviewed and approved by the Air Force prior to delivery.
- IPBs are developed IAW MIL-PRF-38807, except that MIL-DTL-87929 will also be used for IPBs combined with work packages.
- All checklists, except aircrew and nuclear weapons checklists, are developed IAW MIL-PRF-5096.
- MIL-PRF-83495 requires DOD-STD-863 requirements to be levied on engineering data for preparation of end item wiring data and schematic diagrams.
- Delivery requirements are indicated in the TM Delivery Requirements matrices.
- For further information on Air Force Digital Data Strategy, see WWW address http://www.pdsm.wpafb.af.mil/datamgt/data_mgt.htm.
- *To use the fill-in boxes in the tables and matrices, double-click next to a box and change the "Default text" or "Default value" in the pop-up dialog box as required. (Delete this note prior to placing TMCR on contract.)*

PART A – TM TYPE SELECTION TABLES

TABLE 1
TMSS REQUIREMENTS FOR THE () Program
(System/Component)

Title or Type of Manuals	Specification	Required
1. Inspection TOs	MIL-PRF-5096	
a. Inspection and Maintenance Requirements (-6) Manual		<input type="checkbox"/>
b. Acceptance and Functional Check Flight (FCF) Procedures (-6CF) Manual		<input type="checkbox"/>
c. Acceptance and Functional Check Flight (-6CL) Checklist		<input type="checkbox"/>
d. Workcards		<input type="checkbox"/>
e. Inspection Requirements Cards		<input type="checkbox"/>
f. Flow/Sequence Charts		<input type="checkbox"/>
g. Checklists		
(1) Maintenance/Operations (Non-Aircrew)		<input type="checkbox"/>
(2) Operations (Aircrew)		<input type="checkbox"/>
2. Cargo Aircraft Loading and Offloading TOs	MIL-PRF-5288	
a. Manual		<input type="checkbox"/>
b. Checklists		<input type="checkbox"/>
3. Weight and Balance (Aircraft)	MIL-PRF-5920	
a. Loading Data Manual		<input type="checkbox"/>
b. Sample Basic Weight Checklists		<input type="checkbox"/>
4. Flight Manuals (see notes)	MIL-PRF-7700	
a. Flight Manual		<input type="checkbox"/>
b. Performance Data Manual		<input type="checkbox"/>
5. List of Applicable Publications	MIL-PRF-8031	<input type="checkbox"/>
6. Structural Repair Manuals (for Aircraft)	MIL-PRF-9854	<input type="checkbox"/>
7. Munitions/Weapons Loading Procedures, Non- nuclear and Nuclear	MIL-PRF-9977	
a. Nuclear Weapons Basic Information and Loading Procedures		<input type="checkbox"/>
b. Nuclear Weapons Loading Procedures		<input type="checkbox"/>
c. Non-nuclear Munitions Basic		<input type="checkbox"/>
d. Non-nuclear Loading Procedures		<input type="checkbox"/>
e. Integrated Combat Turnaround Procedures		<input type="checkbox"/>
f. Non-nuclear Munitions Loading Standard Data Packages (SDPs)		<input type="checkbox"/>
g. Loading Procedures Checklists		<input type="checkbox"/>
h. Integrated Loading Procedures Checklists		<input type="checkbox"/>
i. Nuclear Weapons Loading Procedure Checklists		<input type="checkbox"/>
j. Integrated Combat Turnaround Procedures Checklists		<input type="checkbox"/>
k. NATO Stage B Cross-Servicing Checklists		<input type="checkbox"/>

TABLE 1
TMSS REQUIREMENTS FOR THE () Program
(System/Component)

Title or Type of Manuals	Specification	Required
8. Mobile Training Sets (MTS) and Part Task Trainer TOs	MIL-PRF-9994	
a. Single Manual		<input type="checkbox"/>
b. Single Manual w/IPB		<input type="checkbox"/>
c. General/Systems Trainer Manuals		<input type="checkbox"/>
d. General/Systems Trainer Manuals w/IPB		<input type="checkbox"/>
e. Part Task Trainer Manuals		<input type="checkbox"/>
9. Space Operations and Support Documentation TOs		
-- Commercial specification (all space systems & missiles)	ANSI/AIAA-R024-1993	<input type="checkbox"/>
-- MILSPEC (Intercontinental Ballistic Missiles)	MIL-PRF-38311	<input type="checkbox"/>
-- MILSPEC (Space Systems)	MIL-PRF-38314	<input type="checkbox"/>
a. Operations Manual		<input type="checkbox"/>
b. Operations Checklists		<input type="checkbox"/>
c. Technical Manuals and Related Checklists		<input type="checkbox"/>
10. Nuclear and Non-nuclear Weapon Delivery and Aircrew Procedures Manual and Checklists	MIL-PRF-38384	
a. Non-nuclear Weapon Delivery Manual (Strategic Bomber & Tactical Aircraft)		<input type="checkbox"/>
b. Nuclear Bomb Delivery Manual (Strategic Bomber Aircraft)		<input type="checkbox"/>
c. Aircrew Nuclear Weapon Delivery Manual (Strategic Bomber Aircraft)		<input type="checkbox"/>
d. Aircrew Nuclear Weapon Delivery Manual (Tactical Aircraft)		<input type="checkbox"/>
e. Non-nuclear Weapon Delivery Checklist (Strategic Bomber & Tactical Aircraft)		<input type="checkbox"/>
f. Nuclear Bomb Delivery Checklist (Strategic Bomber Aircraft)		<input type="checkbox"/>
g. Aircrew Nuclear Weapon Delivery Checklist (Tactical Aircraft)		<input type="checkbox"/>
h. Non-nuclear Weapon Delivery Source Data Packages		<input type="checkbox"/>
11. Air Refueling Procedures	MIL-PRF-38413	
a. Manual		<input type="checkbox"/>
b. Checklist		<input type="checkbox"/>
12. Work Unit Code Manual	MIL-PRF-38769	<input type="checkbox"/>
13. Calibration Procedures	MIL-PRF-38793	<input type="checkbox"/>
14. Time Compliance Technical Orders (TCTOs)	MIL-PRF-38804	<input type="checkbox"/>
15. Aircraft Battle Damage Assessment and Repair TOs	MIL-PRF-87158	<input type="checkbox"/>
16. Illustrated Parts Breakdown	MIL-PRF-38807	X <input type="checkbox"/>

TABLE 1
TMSS REQUIREMENTS FOR THE () Program
(System/Component)

Title or Type of Manuals	Specification	Required
17. On-Equipment Organizational Maintenance Manual Set (see notes)	MIL-PRF-83495	
a. General Equipment (GE) Manual		<input type="checkbox"/>
b. General System (GS) Manuals		<input type="checkbox"/>
c. Combined GE & GS Manual		<input type="checkbox"/>
d. Job Guide (JG) Manuals		<input type="checkbox"/>
e. Fault Reporting (FR) Manual		<input type="checkbox"/>
f. Fault Isolation (FI) Manual		<input type="checkbox"/>
g. Wiring Data (WD) Manual		<input type="checkbox"/>
h. Schematic Diagram (SD) Manual		<input type="checkbox"/>
18. Operation and Maintenance Instructions in Work Package Format	MIL-DTL-87929	
a. Maintenance Manuals		
(1) Intermediate Maintenance		<input type="checkbox"/>
(2) Depot Maintenance		<input type="checkbox"/>
(3) Combined (I&D) Maintenance		<input type="checkbox"/>
(4) On Condition Maintenance		<input type="checkbox"/>
b. Operation & Maintenance Instruction Manuals		<input type="checkbox"/>
c. Special Manuals		
(1) Aircraft Engine Testing and Trending Procedures		<input type="checkbox"/>
(2) Aircraft Power Package Testing Procedures		<input type="checkbox"/>
(3) Static Firing of Missile Motors		<input type="checkbox"/>
(4) System Peculiar Corrosion Control		<input type="checkbox"/>
(5) Nondestructive Inspection (NDI)		<input type="checkbox"/>
(6) Aircraft Structural Integrity Program (ASIP)		<input type="checkbox"/>
(7) ATE Operator Test Procedures		<input type="checkbox"/>
(8) Special Requirements for Storage and Maintenance Procedures; AUR Munitions/Launchers and Associated Support Equipment, Conventional Components and CMBR Agents		<input type="checkbox"/>
(9) Parachute Packing Procedures		<input type="checkbox"/>
(10) Operators Instructions (Hand-Held Flight Computers)		<input type="checkbox"/>
(11) Installation-Engineering Facility (Ground C-E Equipment)		<input type="checkbox"/>
d. Checklists (IAW MIL-PRF-5096)		<input type="checkbox"/>
e. With Illustrated Parts Breakdown (see notes)		<input type="checkbox"/>
19. Commercial Manuals (Evaluate according to MIL-HDBK-1221)		<input type="checkbox"/>
20. Aircraft Cross-servicing Guide	MIL-DTL-22202	<input type="checkbox"/>
21. Electronic Technical Manuals (Contact specification preparing activity for guidance.)	MIL-PRF-87268 MIL-PRF-87269	<input type="checkbox"/>

TABLE 2
ADDITIONAL TM TYPE SELECTIONS

NOTES:

- Check all applicable boxes.
- For commercial manual supplemental data only, under the specification heading, enter "Same style and format," "MIL-PRF-38807" (for IPB data), or "MIL-STD-38784."
- For existing MIL-SPEC manuals not being updated to latest specification requirements, enter "Same style and format" under the specification heading.

TO Number, Title, or Type of Manual	Specification	Com- mercial Manual	Change/ Revision	Supple- ment	Supple- mental TM	Source Data
1. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PART B - TM DELIVERY REQUIREMENTS

FOR _____
(System/Item)

TM DATA TYPE DELIVERED _____.

(TMSS/Change/Supplement/etc.)

(Replicate form for each TM type required.)

Delivery Format Requirements Codes

Paper (draft or manuscript only. Cannot be used for final delivery)

Mixed paper and digital (G/I)

Digital delivery only:

G. - Standard Generalized Mark-up Language (SGML).

I. - Indexed Portable Document Format (IPDF) File.

EXAMPLE: M(G) / 2 [Paper and SGML / 2 copies]

NOTES:

- Delivery format requirements codes indicate the media/file format to be delivered for each program event.
- TCTO requirements are specified in the contract vehicle approving the TCTO.
- When on-line access (e.g., CITIS) is a contractual requirement, copy quantity will normally be Ø (zero).

DELIVERY SCHEDULE

<div>Event ⇔</div> <div>Number of days data required prior to event ⇔</div> <div>Enter Office Symbol and Address</div> <div>↓ ↓</div>	<div>Technical Review(s) (20 Days)</div> <div>↓</div>	<div>Verification (20 Days)</div> <div>↓</div>	<div>Prepublication Review (14 Days)</div> <div>↓</div>	<div>Final TO Distribution (45 Days)</div> <div>↓</div>
OO-ALC / LGVTN 6042 FIR AVE B.1236 HILL AFB UT 84056-5820	M / 1	M / 1	M / 1	M / 1
OO-ALC / LGHLE 6040 GUM LANE B.1216 HILL AFB UT 84056	/ 3	/	/	/
OO-ALC / LGJL 6050 GUM LANE B.1215 HILL AFB UT 84056	/ 1	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
Total Copies Required:				

SECTION 3. SPECIFICATION/STANDARD INTERFACE RECORDS (SIRs)

NOTES:

- Most specification "Acquisition Requirements" list the same two items for paragraphs 6.2a and 6.2b. For this contract enter:
 - 6.2a. The title, number and date of each specification will be listed in the heading of the applicable SIR.
 - 6.2b. The issue of the DODISS used in this contract is (*enter date*).
- Tailoring out digital requirements may result in parsing failure of the delivered files. All such tailoring must be coordinated with the specification Preparing Activity (PA).
- All TM specifications applicable to this contract require an appropriately tailored SIR attached to this section. MIL-STD-38784 must be included in all contracts/proposals for AF TMSS-developed TOs.
- Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the DoD Single Stock Point (DODSSP) Acquisition Streamlining and Standardization Information System (ASSIST) web page, URL: <http://www.dodssp.daps.mil/assist.htm>.

STANDARDIZATION INTERFACE RECORD FOR MIL-DTL-22202D,

31 March 1999

Supplement 1,

31 March 1999

Manual, Technical, Aircraft Cross-Servicing Guide, Preparation of

The requirements of 6.2 are met in this SIR (see below).

1.1 In addition to paper delivery, when this specification is used to develop digital delivery files (document type definitions – DTDs) contact the PA for additional instructions.

2.3 Ensure the listing for STANAG/ASCC Air Standard Documents is current. List applicable STANAG/ASCC Air Standards below.
(List STANAG/ASCC Air Standard Documents here.)

2.2.1 (Added) "Other government documents, drawings, and publications.

DEPARTMENT OF DEFENSE

DOD 5200.1-R DoD Information Security Program Regulation

DOD 5220.22-M National Industrial Security Program Operating Manual

4. Replace with: "**VERIFICATION.**

"All cross-servicing guides shall meet the requirements of sections 3 and 5 of this specification, as required by the acquiring activity. The requirements set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any requirements in this specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the government for acceptance comply with all requirements of the contract. Use of sampling inspections shall be at the discretion of the contractor, and in accordance with commercially acceptable quality assurance procedures. However, use of sampling in QA procedures does not authorize submission of known defective material, either indicated or actual, nor does it commit the government to accept defective material."

5. Replace with: "**PACKAGING.**

"5.1 Packaging Requirements. For acquisition purposes, the packaging requirements shall be as specified in the contract or order. When the actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to determine packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department's System Command. Packaging data retrieval is available from the Military Department's or Defense Agency's automated packaging files, CD-ROM products, or the responsible packaging activity.

"5.1.1 Encoded Computer Products. Packaging of encoded computer products for delivery shall be in accordance

with the requirements of MIL-STD-1840.

"5.1.2 Classified Material. Classified material shall be packaged and identified in accordance with DOD 5200.1-R, DOD 5220.22-M, and the implementing Service regulations."

- 6.2a Title, number, and date of the specification are listed above.
- 6.2b Issue of DODISS: *(fill in issue of DODISS applicable to this contract)*
- 6.2c Packaging requirements (see above).
- 6.2d Verification requirements (see above).

STANDARDIZATION INTERFACE RECORD FOR MIL-STD-38784,

Notice 2,

2 July 1995

1 December 2000

**Standard Practice for Manuals, Technical:
General Style and Format Requirements**

4.5.1.13 Destruction Notice. Change the existing sentence to read: "...or X shall be marked with Handling and Destruction Notice "a" (below) on the cover/title..." Add a new second sentence as follows: "Unclassified TOs authorized for Public Release (Distribution Statement "A") shall be marked with disposition notice "b" (below) on the title or T-2 page."

4.5.1.13.a. Designate existing paragraph as "a. HANDLING AND DESTRUCTION NOTICE..."
Add: "See TO 00-5-2 for specific destruction procedures."

4.5.1.13.b (Added) b. DISPOSITION NOTICE - Refer to T.O. 00-5-2 for disposition instructions.

STANDARDIZATION INTERFACE RECORD FOR MIL-PRF-38804,

Amendment 1,

1 March 1996

20 June 1997

Time Compliance Technical Orders – Preparation

NOTE: Entries marked with an asterisk (*) will have to be manually entered and tagged in SGML files until the specification and its associated DTD and FOSI have been updated to incorporate the changes. The rescission date and statement will continue to appear in paragraph 3 of SGML-tagged TCTO files until the DTD and FOSI are updated.

Amendment 1 Delete entirely.

- 2.2.2 Change "AFM 67-1" to "AFMAN 23-110."
Add "AFMCMAN 21-1 - Air Force Materiel Command Technical Order System Procedures" at the end of the Air Force Instructions.
- 3.5.2g Add new line: "g. Rescission Date (see 3.5.2.6.1)" Renumber following paragraphs to "h" through "l".
- 3.5.2.4 Change 1st sentence to read: "...supplement thereto (see 3.6) provided by the acquiring activity on an AFMC Form 873 (see 6.5)."
- 3.5.2.5 Change 1st sentence to read: "...acquiring activity on an AFMC Form 873 (see 6.5)."
- * 3.5.2.6 Change 1st sentence to read: "...acquiring activity on an AFMC Form 873 (see 6.5)." Change last sentence to read: "...in the Y2K format: YYYYMMDD (see Figures 1 through 6)"
- * 3.5.2.6.1 (Added) "Rescission Date. The contractor shall enter the TCTO rescission date in the upper right corner of the first page immediately below the TCTO issue date. The rescission date will be specified on the AFMC Form 873 (see 6.5). The date will be in the government-approved Y2K format YYYYMMDD."
- 3.5.2.8 Add to the end of the paragraph: "See AFMCMAN 21-1 for additional guidance."
- 3.5.2.9.1d Change to read: "...reinstating and establishing a new rescission date for rescinded TO..."

3.5.2.9.4 Change "AFMC/AFCC" to "AFMC/AFCA/AFSPC"

* 3.5.3.3 Change "proofing" to "verification" (4 places)
Change last sentence to read: "...waived, the office symbol, e-mail address and Defense Switched Network (DSN) phone number of the approving official shall..."

3.5.5.3 Replace "a" through "d" with the following:

a. (Added) Routine Safety Inspection Organizational/Intermediate Level TCTOs. "Not later than (#) days after receipt of this TCTO. Affected system/equipment shall be removed from service if this TCTO is not accomplished within the specified number of days, or 60 days prior to the TCTO rescission date, whichever comes first. The specified number of days for accomplishment shall be provided on the AFMC Form 873 (see 6.5).

b. Routine Action, Organizational/Intermediate Level, Safety TCTO. "Not later than ____ days after receipt of (this TCTO) (kits) (parts) (special tools). Failure to accomplish this TCTO by the preceding specified number of days, or 60 days prior to the TCTO rescission date, whichever comes first, shall automatically restrict operations or shall be justification for withdrawing affected system/equipment from service until compliance is accomplished. The specified number of days for accomplishment shall be provided on an AFMC Form 873 (see 6.5).

c. Routine Action, Organizational/Intermediate Level TCTO. Organizational/Intermediate level TCTOs having a compliance period in terms of days shall read: "Not later than ____ days after receipt of (this TCTO) (kits) (parts) (special tools). Failure to accomplish the work by expiration of the compliance period, or 60 days prior to the TCTO rescission date, whichever comes first, shall be justification for withdrawing the affected system/equipment from service until compliance is accomplished. The specified number of days and requirements for accomplishment shall be provided on an AFMC Form 873 (see 6.5).

d. Routine Action, Organizational/Intermediate Level, Based Upon Maintenance Practice. When the time period for accomplishment cannot be specified as a certain number of days after receipt of the TCTO, kits, parts or special tools, the TCTO may specify compliance at the time a known maintenance event occurs, such as "At the time of removal from Emergency War Order (EWO) status (or During scheduled modernization action). If not complied with by (date), or 60 days prior to the TCTO rescission date, whichever comes first, the system/equipment shall be removed from active service until compliance with the TCTO is accomplished. The preceding phrase is an example of the type to be used and may be expanded or worded to the individual requirement as needed. Use of the phrases "upon failure," "upon accumulation" or "when reaching" are not authorized for any TCTO. The required statement shall be provided on an AFMC Form 873 (see 6.5).

e. Routine Action, Depot Level. These modifications require specified accomplishment at a time designated by the acquiring activity by means of the AFMC Form 873 (see 6.5) at overhaul, contractor team, force modernization, AFMC schedule or whatever other phrase that is most appropriate.

3.5.5.4 Add new sentence as follows: "The required statements shall be provided on an AFMC Form 873 (see 6.5)."

3.5.5.5 (Added in Amendment 1) Delete.

3.5.7.1.1.1 Change 4th and 5th lines to read: "...concept waived by (insert name/rank/office symbol/DSN phone number and e-mail address of the Lead Command POC authorizing a waiver of the complete..."

3.5.7.2 Change "proofing" to "verification" (2 places)

3.5.7.2.1 (Added) "For Inspection TCTOs, the AFSCs and manhours shall be based on Maintenance Data Collection (MDC) records. The equivalent work phases will be:

- a. Equipment preparation.
- b. Access work area.
- c. Perform inspection.
- d. Close work area.
- e. Operational check and documentation."

3.5.7.2.1 (Existing) Renumber as 3.5.7.2.2.

3.5.10.1.4 Delete "and AFMCM 66-20, Chapter 4 (-21 TOs)"

- 3.5.11.1 Change 1st sentence to read: "...the name, organization and office symbol, DSN telephone number, and e-mail address of the POC responsible..."
Change 2nd sentence to read: "...and the information for the POC authorizing..."
 - 3.6 Delete the last sentence ("All supplements shall be assigned a new data code number.")
 - 3.6.1 Change 1st sentence to read: "...supplement, or it explicitly changes the TCTO rescission date."
 - 3.6.6 Delete ", IF APPROVED BY THE MAJCOM," in the NOTE text.
 - 4.1 Change title to "Contractor Prototyping."
 - 4.1b Change to read: "...perform the prototyping functions specified..."
 - 4.1d Change to read: "...review any of the prototyping functions, when..."
 - 4.1.1 Change "verification" to "prototyping" (2 places)
 - 4.1.1d, e & f (Added) "d. Form, fit and function of TCTO kits and modified components.
e. TO update accuracy.
f. Proper function of the modified equipment."
 - 5.2 Replace with: "Bill of Materials. TCTO kits shall contain a Bill of Materials listing all of the items required to accomplish the TCTO. As a minimum, the format of the Bill of Material shall be as follows:"
 - 6.2l Change to read: "Issue and Rescission dates (see 3.5.2.6 & 3.5.2.6.1)."
 - 6.2x Delete.
 - 6.4.8 Change "verification" to "prototyping" (2 places)
 - 6.4.8a Add "Includes validating the form, fit, and function of any kits involved, accuracy of associated TO updates, and proper operation of the modified equipment."
 - 6.5 Change 1st sentence to read: "...are contained in AFMCMAN 21-1, Air Force Materiel Command Technical Order System Procedures."
 - 6.6 Add "prototyping" and "supplement" to key word list.
- Figures 3, 4 & 5 Change "Proofing" to "Verification" in each figure.

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
<p>The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.</p>				
1. TITLE		2. IDENTIFICATION NUMBER		
Scientific and Technical Reports		DI-MISC-80711A		
<p>3. DESCRIPTION/PURPOSE</p> <p>3.1 Scientific and Technical Reports document and disseminate the precise nature and results of analytical studies, research, development, test and evaluation (RDT&E) on an assigned task(s) to the analytical, scientific, technical and management community. Scientific and Technical Reports, may be definitive for the subject presented, exploratory in nature, or an evaluation of critical subsystem or of technical problems.</p>				
4. APPROVAL DATE (YYYYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
20000121	L/DD	X		
<p>7. APPLICATION/INTERRELATIONSHIP</p> <p>7.1 This DID contains the format requirements and preparation instructions for the information product generated by the specific and discrete task requirement as delineated in the contract.</p> <p>7.2 This DID is applicable to the elements, organization and design of technical publications.</p> <p>7.3 This DID supersedes UDI-S-23272C, DI-S-4057, DI-S-3591A, and DI-MISC-80711.</p> <p>7.4 Defense Technical Information Center (DTIC), 8725 John J. Kingman Rd., Ste. 0944, Ft. Belvoir, VA 22060-6218</p>				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER	
		SF 298	L7382	
<p>10. PREPARATION INSTRUCTIONS</p> <p>10.1 <u>Reference document</u>. The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract.</p> <p>10.2 Document format shall be in accordance with ANSI/NISO Z39.18 Scientific and Technical Reports -- Elements, Organization, and Design.</p> <p>10.3 Document content shall be clearly written, describe accomplishments and other facts adequately with no technical errors, and be acceptable for release. If marked unclassified, unlimited, they should be accompanied by a letter certifying that the documents have been cleared for public release and sale, to include foreign nationals.</p>				
<p>11. DISTRIBUTION STATEMENT</p> <p>Distribution Statement A: Approved for public release; distribution is unlimited.</p>				

DATA ITEM DESCRIPTION

Title: COMMERCIAL DRAWINGS AND ASSOCIATED LISTS

Number: DI-SESS-81003B

Approval Date: 20011214

ASMC Number: A7432

Limitation:

DTIC Applicable:

GIDEP Applicable:

Office of Primary Responsibility: AR

Applicable Forms:

Use/relationship: Commercial Drawings and Associated Lists define commercial items acquired by the Department of Defense.

- a. This Data Item Description (DID) contains the format and content preparation instructions for Commercial Drawings and Associated Lists resulting from the work task described in 3.6.4 of MIL-DTL-31000B.
- b. This DID is applicable to acquisitions of military systems, equipment, and components. Its use is limited by the requirements of the Defense Federal Acquisition Regulation Supplement, Subpart 227. Before acquiring Commercial Drawings and Associated Lists, the acquiring activity should evaluate the contractor's drawing package and engineering documentation practices to determine if the data will be satisfactory for the Government's intended uses.
- c. This DID should be tailored to the minimum data requirements of the applicable contract or purchase order.
- d. This DID supersedes DI-DRPR-81003A, which superseded DI-DRPR-81003 and DI-CMAN-80784.
- e. This DID is related to DI-SESS-81000B, DI-SESS-81001B, and DI-SESS-81002B.

Requirements:

1. Reference Documents. The applicable issue of documents cited herein, including their approval dates and the dates of applicable amendments, notices, and revisions, shall be as cited in the contract.
2. General. Commercial Drawings and Associated Lists shall be in accordance with MIL-DTL-31000B and the TDP Option Selection Work Sheet incorporated into the contract or purchase order.
3. Format. Drawings and associated lists shall be in the contractor's or original supplier's format.
4. Content. Commercial Drawings and Associated Lists shall provide sufficient information to permit Government maintenance, modification, and engineering analysis of commercial items.

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. TITLE Logistics Management Information (LMI) Summaries			2. IDENTIFICATION NUMBER DI-ALSS- 81530	
3. DESCRIPTION / PURPOSE The LMI Summaries consist of information that a requiring authority can use to perform logistics planning and analysis, assess design status, influence program decisions, and verify contractor performance meets system supportability requirements.				
4. APPROVAL DATE (YYMMDD) 961118	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) A/TM	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION / INTERRELATIONSHIP 7.1 This DID contains the format and content preparation instructions for LMI Summaries required by Worksheet 1 (Figure 1) of MIL-PRF-49506, or some other requirements identification tool. 7.2 This DID is applicable to the acquisition of military systems and equipment. 7.3 The delivery method (e.g., on-line access, tape, floppy, etc.) is outside the scope of MIL-PRF-49506 and must be addressed separately.				
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER A7216		
10. PREPARATION INSTRUCTIONS 10.1 <u>Reference Documents</u> . The applicable issue of the documents cited herein, including their approval dates and the dates of any applicable amendments, notices, and revisions, shall be specified in the contract. 10.2 <u>Format</u> . The formats for LMI Summaries are not dictated by MIL-PRF-49506, but are left to the discretion of the requiring authority and the contractor. 10.3 <u>Content</u> . Worksheet 1 (Figure 1) of MIL-PRF-49506, or some other requirements identification tool contained in the contract, identifies the required LMI Summaries, desired information per LMI Summary, and associated guidance. The Data Product Worksheets (Figure 2, MIL-PRF-49506), or some other requirements identification tool contained in the contract, shall specify the selected data.				
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.				

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>				
1. TITLE		2. IDENTIFICATION NUMBER		
Logistics Management Information (LMI) Summaries		DI-ALSS- 81530		
3. DESCRIPTION / PURPOSE				
<p>The LMI Summaries consist of information that a requiring authority can use to perform logistics planning and analysis, assess design status, influence program decisions, and verify contractor performance meets system supportability requirements.</p>				
4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
961118	A/TH			
7. APPLICATION / INTERRELATIONSHIP				
<p>7.1 This DID contains the format and content preparation instructions for LMI Summaries required by Worksheet 1 (Figure 1) of MIL-PRF-49506, or some other requirements identification tool.</p> <p>7.2 This DID is applicable to the acquisition of military systems and equipment.</p> <p>7.3 The delivery method (e.g., on-line access, tape, floppy, etc.) is outside the scope of MIL-PRF-49506 and must be addressed separately.</p>				
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER		
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11. DISTRIBUTION STATEMENT				
DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.				